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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	10

	Complete if Known
Application Number	10/632,428-Conf. #4377
Filing Date	August 1, 2003
First Named Inventor	David Bebbington
Art Unit	1624
Examiner Name	D. R. Rao
Attorney Docket Number	030682.0001-US01

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /DR/

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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	AE	US-4,051,252	09/27/1977	Mayer et al.	
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	AQ	US-6,495,582	12/17/2002	Hale et al.	
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	AY	US-6,593,326	07/15/2003	Bradbury et al.	
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	AD1	US-6,642,227	11/04/2003	Cao et al.	
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/Deepak Rao/ 03/31/2008

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Attorney Docket Number	030682.0001-US01

Sheet 2 of 10

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	BI	WO 00/21955	04/20/2000	AstraZeneca AB		
	BJ	WO 00/38675	07/06/2000	Smith Klein Beecham, PLC		
	BK	WO 00/39101	07/06/2000	AstraZeneca AB		
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/Deepak Rao/ 03/31/2008

Substitute for form 1449/PTO

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Sheet 3 of 10

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	BN	WO 00/78757	12/28/2000	Shionogi Bioresearch Corp.		
	BO	WO 01/12621	02/22/2001	Vertex Pharmaceuticals Incorporated		
	BP	WO 01/25220	04/12/2001	Kinetix Pharmaceuticals Inc.		
	BQ	WO 01/39777	06/07/2001	OSI Pharmaceuticals, Inc.		
	BR	WO 01/40215	06/07/2001	Pfizer Products Inc.		
	BS	WO 01/44242	06/21/2001	Bristol-Myers Squibb Co.		
	BT	WO 01/47879	07/05/2001	Icos Corporation		
	BU	WO 01/47897	07/05/2001	Pharmacopeia, Inc. and Bristol-Myers Squibb Company		
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	BW	WO 01/64655	09/07/2001	AstraZeneca AB		
	BX	WO 01/74768	10/11/2001	Vertex Pharmaceuticals Incorporated		
	BY	WO 01/79198	10/25/2001	Agouron Pharmaceuticals, Inc.		
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	BC1	WO 02/062789	08/15/2002	Vertex Pharmaceuticals Incorporated		
	BD1	WO 02/066461	08/29/2002	Vertex Pharmaceuticals Incorporated		
	BE1	WO 02/068415	09/06/2002	Vertex Pharmaceuticals Incorporated		
	BF1	WO 02/08244	01/31/2002	Schering Corp.		
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	BO1	WO 02/22608	03/21/2002	Vertex Pharmaceuticals Incorporated		

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	BP1	WO 02/24667	03/28/2002	Merck Patent GMBH		
	BQ1	WO 02/47690	06/20/2002	Cytovia, Inc.		
	BR1	WO 02/50065	06/27/2002	Vertex Pharmaceuticals Incorporated		
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	BK2	WO 99/62518	12/09/1999	Cadus Pharmaceutical Corporation		
	BL2	WO 99/65897	12/23/1999	Chiron Corporation		

Examiner Signature	/Deepak Rao/	Date Considered	03/31/2008

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
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	CC	Alonso, M. et al., "GSK-3 Inhibitors: Discoveries and Developments", Current Medicinal Chemistry, 11, 755-763 (2004).	
	CD	Anderson, Neil G. "Requirement for integration of signals from two distinct phosphorylation pathways for activation of MAP kinase." Nature, 343, 651-653 (1990)	
	CE	Anonymous, "Vertex Inhibitors of Aurora-2, glycogen synthase kinase-3 and Src Kinase", Expert Opin. Ther. Patents, 14(3): 439-443 (2004)	
	CF	Baig, G.U. et al., "Triazines and Related Products. Part 28' Conversion of 3-Aryl-l-(2-cyanophenyl) triazenes into 3-Arylquinazolin-4(3H)-ones with Formamide" J. Chem. Soc. Perkin Trans. I, 2765-2766 (1984).	
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	CP	Boschelli et al., "Small molecule inhibitors of Src family kinases", Drugs of the Future, 25(7): 717-736 (2000).	
	CQ	Brownlees, J. et al., "Tau phosphorylation in transgenic mice expressing glycogen synthase kinase-3beta transgenes", Neuroreport., 8(15), 3251-5 (1997).	
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	CW	Charpiot, B. et al., "Quinazolines: Combined type 3 and 4 phosphodiesterase inhibitors", Bioorg. Med. Chem. Lett., 8(20), 2891-2896 (1998).	
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	CG1	Curd, F.H.S. et al, "Synthetic antimalarials. Part XVII. Some aminoalkylaminoquinoline derivatives", J. Chem. Soc., 899 – 909 (1947).	
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	CY1	Hamdane, M. et al., "Pin 1 - A Therapeutic Target in Alzheimer Neurodegeneration," J. Mol. Neurosci., 19(3): 275-87 (2002).	
	CZ1	Haq, S. et al., "Glycogen Synthase Kinase-3β Is a Negative Regulator of Cardiomyocyte Hypertrophy", J. Cell Biol., 151(1), 117-129 (2000).	
	CA2	Hardt, S.E. et al., "Glycogen Synthase Kinase-3β - A Novel Regulator of Cardiac Hypertrophy and Development," Circulation Research, 90: 1055-1063 (2002).	
	CB2	Harrington, E.A. et al., "VX-680, a potent and selective small-molecule inhibitor of the Aurora kinases, suppresses tumor growth in vivo," Nat. Med., 10(3): 262-267 (2004).	
	CC2	Haworth, R.D. et al., "Synthetic antimalarials. Part XXVII. Some derivatives of phthalazine, quinoxaline, and isoquinoline", J. Chem. Soc., 777 – 782 (1948).	
	CD2	Heaney, F., et al., "Pyrimidine annelated heterocycles-synthesis and cycloaddition of the first pyrimido[1,4]diazepine N-oxides," *J. Chem. Soc., Perkin Trans.*, 1:622-632 (2001)	
	CE2	Henriksen, E.J. et al., "Modulation of muscle insulin resistance by selective inhibition of GSK-3 in Zucker diabetic fatty rats," Am. J. Physiol. Endocrinol. Metab., 284: E892–E900 (2003).	
	CF2	Heutink, P., "Untangling tau-related dementia", Hum. Mol. Genet., 9(6): 979-986 (2000).	
	CG2	Ife, R.J. et al., "Reversible Inhibitors of the Gastric (H+/K+)-ATPase. 5. Substituted 2,4-Diaminoquinazolines and Thienopyrimidines", J. Med. Chem., 38(14); 2763 – 2773 (1995).	
	CH2	IUPAC Compendium of Chemical Terminology on a definition of "aliphatic compounds" found from http://www.chemsoc.org/chembytes/goldbook/index.htm (last visited on November 18, 2007).	
	CI2	Ivashchenko A. V. et al., "Synethsis and Study of Heteroaromatic Ligands Containing a Pyrimidine Ring", Khim. Geterotsikl. Soedin., (12), 1673-7, (1980).	
	CJ2	Jambhekar, S.S., "Biopharmaceutical Properties of Drug Substances" in Principles of Medicinal Chemistry, 4th ed., 12-24, (1995).	
	CK2	Jeffery, J.E. et al., "Synthesis of sibutramine, a novel cyclobutylalkylamine useful in the treatment of obesity, and its major human metabolites", J. Chem. Soc., Perkin Trans. 1, 21, 2583-2589 (1996).	
	CL2	Katzung, Bertram G., Basic and Clinical Pharmacology, 7th Edition, 1998, pp. 881-884.	
	CM2	Kelarev, V.I. et al., "Synthesis of amino derivatives of 1,3,5-triazine containing 1,3-4-thiadiazole fragments," IZVESTIYA VYSSHIKH UCHEBNKH ZAVEDENII, KHIMIYA I KHIMICHESKAYA TEKHNOLOGIYA, 40(5): 27-32 (1997).	
	CN2	Kim, L. et al., "GSK3, a master switch regulating cell-fate specification and tumorigenesis," Current Opinion in Genetics & Development, 10:508-514 (2000).	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	8	of	10

Complete if Known	
Application Number	10/632,428-Conf. #4377
Filing Date	August 1, 2003
First Named Inventor	David Bebbington
Art Unit	1624
Examiner Name	D. R. Rao
Attorney Docket Number	030682.0001-US01

	CP2	Kimura, M. et al., "Cell Cycle-dependent Expression and Centrosome Localization of a Third Human Aurora/Ipl1-related Protein Kinase, AIK3", J. Biol. Chem., 274(11), 7334-7340 (1999).	
	CQ2	Klein, P.S. et al., "A molecular mechanism for the effect of lithium on development", PNAS, 93: 8455-8459 (1996).	
	CR2	Layzer, R.B., "Section Five - Degenerative Diseases of the Nervous System" in Cecil Textbook of Medicine, 20th ed., 2: 2050-2057 (1996).	
	CS2	Lee, S.J. et al., "Discovery of Potent Cyclic GMP Phosphodiesterase Inhibitors. 2-Pyridyl- and 2-Imidazolylquinazolines Possessing Cyclic GMP Phosphodiesterase and Thromboxane Synthesis Inhibitory Activities," J. Med . Chem., 38 (18): 3547-3557 (1995).	
	CT2	Lovestone, S. et al., "Alzheimer's disease-like phosphorylation of the microtubule-associated protein tau by glycogen synthase kinase-3 in transfected mammalian cells", Curr. Biol., 4(12), 1077-86 (1994).	
	CU2	Lübbers, T. et al., "Design, synthesis, and structure–activity relationship studies of ATP analogues as DNA gyrase inhibitors", Bioorg. Med. Chem. Lett., 10, 8, 821-826 (2000).	
	CV2	Lutz, M.L. et al., "Overexpression and Activation of the Tyrosine Kinase Src in Human Pancreatic Carcimona", Biochem. Biophys. Res. 243, 503-508 (1998).	
	CW2	Lynch, S.A. et al., "Increased Expression of the src Proto-Oncogene in Hairy Cell Leukemia and a Subgroup of B-Cell Lymphomas", Leukemia, 7(9), 1416-1422 (1993).	
	CX2	Lyrer, P., "Neue Ansätze in der Akutbehandlung des zerebrovaskulären Insultes." Schweiz. Med. Woohen Schr., 124(45); 2005-2012 (1994).	
	CY2	Mani, S. et al., "Cyclin-dependent kinase: novel anticancer agents", Exp. Opin. Invest. Drugs., 8, 1849-1870 (2000).	
	CZ2	Masaki, T. et al., "pp60c-src Activation in Hepatocellular Carcinoma of Humans and LEC Rats", Hapatology, 27, 1257 (1998).	
	CA3	Massillon, D. et al., "Identification of the glycogenic compound 5-iodotubercidin as a general protein kinase inhibitor", Biochem J., 299: 123–128 (1994).	
	CB3	Medwid, Jeffrey B. et al., "Preparation of triazolo'1, 5-cipyrimidines as potential antiasthma agents," *J. Med. Chem.*, 33(4): 1230 -1241 (1990)	
	CC3	Molina, T.J. et al., "Profound block in thymocyte development in mice lacking p56lck", Nature, 357, 161-164 (1992).	
	CD3	Moodie, S.A. et al., "Complexes of Ras-GTP with Raf-1 and Mitogen-Activated Protein Kinase Kinase", Science, 260(5114), 1658-1661 (1993).	
	CE3	Moss, R.A. et al., "Conversion of 'Obstinate' Nitriles to Amidines by Garigipati's Reaction", Tetrahedron Lett., 36(48), 8761-8764 (1995).	
	CF3	Myers, M.R. et al., "The synthesis and SAR of new 4-(N-alkyl-N-phenyl)amino-6,7-dimethoxyquinazolines and 4-(N-alkyl-N-phenyl)aminopyrazolo[3,4-d]pyrimidines, inhibitors of CSF-1R tyrosine kinase activity", Bioorg. Med. Chem. Lett., 7, 4, 421-424 (1997).	
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	CH3	Namikawa, Kazuhiko et al., "Akt/Protein Kinase B Prevents Injury-Induced Motoneuron Death and Accelerates Axonal Regeneration." The Journal of Neuroscience, 20(8), 2875-2886 (2000)	
	CI3	Nezu, Y., et al., "Dimethoxypyrimidines as Novel Herbicides. part 1. Synthesis and Herbicidal Activity of Dimethoxyphanoxyphenoxypyrimidines and Analogues," *Pestic. Sci.*, 47(2): 103-113 (1996).	
	CJ3	Nezu, Y., et al., "Dimethoxypyrimidines as Novel Herbicides. part 2. Synthesis and Herbicidal Activity of O-Pyrimidinylasalicylates and Analogues," *Pestic. Sci.*, 47(2): 115-124 (1996).	
	CK3	Nigg, E.A., "Mitotic Kinases as Regulators of Cell Division and its Checkpoints," Nat. Rev. Mol. Cell Biol., 2: 21-32 (2001).	

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Sheet	9	of	10

Complete if Known	
Application Number	10/632,428-Conf. #4377
Filing Date	August 1, 2003
First Named Inventor	David Bebbington
Art Unit	1624
Examiner Name	D. R. Rao
Attorney Docket Number	030682.0001-US01

	CL3	Noell, C.W. et al., "Potential Purine Antagonists. XX. The Preparation and Reactions of Some Methylthiopurines", J. Am. Chem. Soc., 81(22), 5997 – 6007 (1959).	
	CM3	Nomenclature found from http://www.cem.msu.edu/~reusch/VirtualText/nomen1.htm (last visited on November 18, 2007).	
	CN3	Norman, M.H. et al., "Structure-Activity Relationships of a Series of Pyrrolo[3,2-d]pyrimidine Derivatives and Related Compounds as Neuropeptide Y5 Receptor Antagonists", J. Med. Chem., 43(22), 4288 -4312 (2000).	
	CO3	Nugent, R.A. et al., "Pyrimidine Thioethers: A Novel Class of HIV-1 Reverse Transcriptase Inhibitors with Activity Against BHAP-Resistant HIV", J. Med. Chem., 41, 3793-3803 (1998).	
	CP3	Okafor, Charles O., "Studies in the Heterocyclic Series. 1,3,9-Triazaphenothiazine Ring System, a New Phenothiazine Ring," *J. Org. Chem.*, 40(19):2753-2755 (1975).	
	CQ3	Parnell, E.W., "2-Cyano-4-nitrophenylhydrazine and 3-Amino-5-nitroindazole", J. Chem. Soc., 2363-2365 (1959).	
	CR3	Pei, J. et al., "Distribution, Levels, and Activity of Glycogen Synthase Kinase-3 in the Alzheimer Disease Brain", J. Neuropathol. Exp. Neurology, 56, 70-78 (1997)	
	CS3	Prasad, G. et al., "18-Crown-6 as a catalyst in the dialkylation of o-nitrophenacyl derivatives", J. Org. Chem., 25, 7188-7190 (1991).	
	CT3	Raingeaud, J. et al., "MMK3- and MMK6-Regulated Gene Expression Is Mediated by p38 Mitogen-Activated Protein Kinase Signal Transduction Pathway", Mol. Cell. Biol., 16, 1247-1255 (1996).	
	CU3	Rogers, E. et al., "The aurora kinase AIR-2 functions in the release of chromosome cohesion in Caenorhabditis elegans meiosis," J. Cell Biol., 157(2): 219–229 (2002).	
	CV3	Rosen, N. et al., "Analysis of pp60c-src Protein Kinase Activity in Human Tumor Cell Lines and Tissues", J.Biol. Chem., 261, 13754-13759 (1986).	
	CW3	Rouse, J. et al., "A Novel Kinase Cascade Triggered by Stress and Heat Shock That Stimulates MAPKAP Kinase-2 and Phosphorylation of the Small Heat Shock Proteins", Cell, 78, 1027-1037 (1994).	
	CX3	Rueeger, H et al., "Design, synthesis and SAR of a series of 2-substituted 4-amino-quinazoline neuropeptide Y Y5 receptor antagonists", Bioorg. Med. Chem. Lett., 10(11), 1175-1180 (2000).	
	CY3	Shikhaliev, K.S. et al., "Heterocyclization of quinazol-2-ylguanidines. 1. Reaction with amino acids", Chem. Heterocycl. Compd., 35 (7), 818-820 (1999).	
	CZ3	Simone, J.V., "Oncology: Introduction" in Cecil Textbook in Medicine, 20th ed., Vol. 1, 1004-1010 (1996).	
	CA4	Singh, S.P. et al., "Synthesis & Mass Spectra of Some Substituted 2-(2'-Benzazolylamino)pyrimidines", Indian J. Chem. Sect. B, 22(1); 37-42 (1983).	
	CB4	Singhal, N. et al., "Synthesis and Antimalarial Activity of Some New Quinazoline Derivatives", Indian Chem. Soc., 61, 690-693 (1984).	
	CC4	Sivaraman, V.S., et al., "Hyperexpression of Mitogen-activated Protein Kinase in Human Breast Cancer", J. Clin. Invest., 99(7), 1478-1483 (1997).	
	CD4	Soriano, P. et al., "Targeted Disruption of the C-SRC Proto-Oncogene Leads to Osteopetrosis in Mice," Cell, 64: 693-702, (1991).	
	CE4	Staley, C.A. et al., "Decreased Tumorigenicity of a Human Colon Adenocarcinoma Cell Line by an Antisense Expression Vector Specific for c-Src", Cell Growth Diff., 8, 269-274 (1997).	
	CF4	Suzuki, S. et al., "Application of electrogenerated triphenylmethyl anion as a base for alkylation of arylacetic esters and arylacetonitriles and isomerization of allylbenzenes", Can. J. Chem., 72(2): 357–361 (1994).	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 10 of 10

Complete if Known	
Application Number	10/632,428-Conf. #4377
Filing Date	August 1, 2003
First Named Inventor	David Bebbington
Art Unit	1624
Examiner Name	D. R. Rao
Attorney Docket Number	030682.0001-US01

	CG4	Takashima, K. et al., "Tau Protein Kinase I is Essential for Amyloid ß-Protein-Induced Neurotoxicity", PNAS 90, 7789-7793 (1993).	
	CH4	Takayanagi, H. et al., "Suppression of arthritic bone destruction by adenovirus-mediated csk gene transfer to synoviocytes and osteoclasts", J. Clin. Invest., 104, 137-146 (1999).	
	CI4	Talamonti, M.S. et al., "Increase in activity and level of pp60c-src in progressive stages of human colorectal cancer", J Clin Invest., 91(1): 53-60 (1993).	
	CJ4	Tanaka, T.U. et al., "Evidence that the Ipl1-Sli15 (Aurora Kinase-INCENP) Complex Promotes Chromosome Bi-orientation by Altering Kinetochore-Spindle Pole Connections," Cell, 108, 317-329 (2002).	
	CK4	Tanji, K. et al., "Purines. X. Reactivities of Methyl Groups on 9-Phenylpurines : Condensation with an Aldehyde or an Ester, and Oxidation with Selenium Dioxide", Chem. Phar. Bull., 40 (1), 227-229 (1992).	
	CL4	The CONDENSED CHEMICAL DICTIONARY, Sixth Edition by Arthur and Elizabeth Rose, 38 (1961).	
	CM4	Ti, J. et al., "Anticandidal activity of pyrimidine-peptide conjugates", J. Med. Chem., 23(8), 913 – 918 (1980).	
	CN4	Toriyabe, Keiji et al: "Preparation of sulfur-containing arylthiazoles and insecticides", Chemica Abstracts, 132(8):93314 (2000).	
	CO4	Traxler P. et al., "Use of a pharmacophore model for the design of EGF-R Tyrosine Kinase Inhibitors: 4-(Phenylamino)Pyrazolo[3, 4-d]pyrimidines," *Journal of Medicinal Chemistry*, 40(22): 3601-3616 (1997)	
	CP4	Venugopalan, B. et al., "Synthesis and antimalarial activity of pyrido[3,2-f]quinozalines and their N-oxides", Indian J. Chem. Sect. B, 34, 9, 778-790 (1995).	
	CQ4	Wagman, A.S. et all, "Discovery and Development of GSK3 Inhibitors for the Treatment of Type 2 Diabetes," Current Pharmaceutical Design, 10, 1105-1137 (2004).	
	CR4	Warner, S.L. et al, "Targeting Aurora-2 Kinase in Cancer," Mol. Cancer Thera., 2, 589-585, 2003.	
	CS4	Whelchel, A. et al., "Inhibition of ERK Activation Attenuates Endothelin-stimulated Airway Smooth Muscle Cell Proliferation", Am. J. Respir. Cell Mol. Biol., 16, 589-596 (1997).	
	CT4	Wiener, J.R., "Decreased Src Tyrosine Kinase Activity Inhibits Malignant Human Ovarian Cancer Tumor Growth in a Nude Mouse Model", Clin. Cancer Res., 5, 2164-2170 (1999).	
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	CV4	Yuan, Z.Q. et al., "Frequent activation of AKT2 and induction of apoptosis by inhibition of phosphoinositide-3-OH kinase/Akt pathway in human ovarian cancer", Oncogene, 19, 2324-2330 (2000).	
	CW4	Zhang, Z. et al., "Destabilization of ß-catenin by mutations in presenilin-1 potentiates neuronal apoptosis", Nature, 395, 698-702 (1998).	

Examiner Signature	/Deepak Rao/	Date Considered	03/31/2008

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